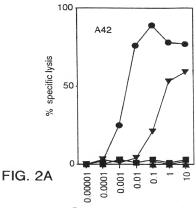
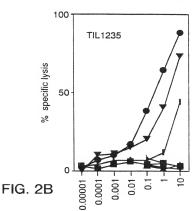
479	AGACACCIGAGACAIGCIGAAAITAITICI CICACACTITIGCTIGAAITTAAIACAGAC EIC 4 A	AGACACCTGAGACATGCTGAAAATTATTTCT	21
420	CCACCACCTTATTCACCTTAAGAGCCAGCG ProProProTyrSerPro	GCTTATGAGAAACTCTGCAGAACAGTCA AlaTyrGluLysLeuSerAlaGluGlnSer	03
359 102	GACAGCAAAGTGTCTCTTCAAGAGAAAAC TGTGAACCTGTGGTTCCCAATGCTCCACCT AspSerLysValSerLeuGlnGluLysAsn CysGluProValValProAsnAlaProPro	GACAGCAAAGTGTCTCTTCAAGAGAAAAC AspSerLysValSerLeuGlnGluLysAsn	84
300	CATGTTGGCACTCAATGTGCCTTAACAAGA AGATGCCCACAAGAAGGGTTTGATCATCGG HisValGlyThrGlnCysAlaLeuThrArg ArgCysProGlnGluGlyPheAspHisArg	CAIGTIGGCACTCAAIGTGCCTTAACAAGA HisValGlyThrGlnCysAlaLeuThrArg	63
239	GGATACAGAGCCTTGATGGATAAAAGTCTT GlyTyrArgAlaLeuMetAspLysSerLeu	ATCGGCTGTTGGTATTGTAGAAGACGAAAT IleGlyCysTrpTyrCysArgArgArgAsn	81
180	CTGACAGTGATCCTGGGAGTCTTACTGCTC LeuThrVallleLeuGlyValLeuLeuLeu	${\tt ACGGCTGAAGAGCCGCTGGGATCGGCATCTCTARABGLUGLUALAALAGLYILEG$	23
119	CCCAAGAAGGGCACGGCCACTCTTACACC ProlysLysGlyHisGlyHisSerTyrThr	AGAGAAGATGCTCACTTCATCTATGGTTAC ArgGluAspAlaHisPheIleTyrGlyTyr	93
59	AGCAGACAGAGGACTCTCATTAAGGAAGG TGTCCTGTGCCCTGACCCTACAAGATGCCA MetPro	AGCAGACAGAGGACTCTCATTAAGGAAGG	\vdash

480	ATCTAATGTTCTCCTTTGGAATGGTGTAGG	ATCTAATGTTCTCCTTTGGAATGGTGTAGG AAAAATGCAAGCCATCTCTAATAATAAGTC	540
541	AGTGTTAAAATTTTAGTAGGTCCGCTAGCA	AGIGITAAAAITITTAGTAGGICCGCTAGCA GTACTAATCATGTGAGGAAATGAGAAA	599
009	TATTAAATTGGGAAAACTCCATCAATAAAT	GTTGCAATGCATGATACTATCTGTGCCAGA	099
661	GGTAATGTTAGTAAATCCATGGTGTTATTT	TCTGAGAGACAGAATTCAAGTGGGTATTCT	719
720	GGGGCCATCCAATTTCTCTTTACTTGAAAT	TIGGCTAATAACAACTAGTCAGGTTTTCG	780
781	AACCTIGACCGACAIGAACIGIACACAGAA	TIGITCCAGTACTATGGAGTGCTCACAAAG	839
840	GATACTTTTACAGGTTAAGACAAAGGGTTG	ACTGGCCTATTTATCTGATCAAGAACATGT	006
901	CAGCAAIGTCTCTTTGTGCTCTAAAATTCT	ATTATACTACAATAATATATTGTAAAGATC	959
096	CTATAGCTCTTTTTTTTGAGATGGAGTTT	CGCTTTTGTTGCCCAGGCTGGAGTGCAATG	1020
1021	GCGCGATCTTGGCTCACCATAACCTCCGCC	TCCCAGGTTCAAGCAATTCTCCTGCCTTAG	1079
1080	CCICCIGAGIAGCIGGGAITACAGGCGIGC	CCICCIGAGIAGCIGGGAITACAGGCGIGC GCCACIAIGCCIGACIAAIIIIGIAGIIII	1140
1141	AGTAGAGGGGGTTTCTCCATGTTGGTCA	AGTAGAGACGGGTTTCTCCATGTTGGTCA GGCTGGTCTCAAACTCCTGACCTCAGGTGA	1199
1200	TCTGCCCGCCTCAGCCTCCCAAAGTGCTGG	TCTGCCCGCCTCAGCCTCCCAAAGTGCTGG AATTACAGGCGTGAGCCACCACGCCTGGCT	1260
1261	GGATCCTATATCTTAGGTAAGACATATAAC	GGAICCIAIAICITAGGIAAGACAIAIAAC GCAGICIAAITACAIIICACITCAAGGCIC	1319
1320	AATGCTATTCTAACTAATGACAAGTATTTT	CTACTAAACCAGAAATTGGTAGAAGGATTT	1380
1381	AAATAAGTAAAAGCTACTATGTACTGCCTT	AGTGCTGATGCCTGTGTACTGCCTTAAATG	1439
1440	TACCTATGGCAATTTAGCTCTCTTGGGTTC	TACCTATGGCAATTTAGCTCTCTTGGGTTC CCAAATCCCTCTCACAAGAATGTGCAGAAG	1500
1501	AAATCATAAAGGATCAGAGATTCTGAAAAA	aaatcataaaggatcagagattctgaaaaa aaaaaaaaaa	1559

FIG. 1B



Peptide concentration (ug/ml)



Peptide concentration (ug/ml)

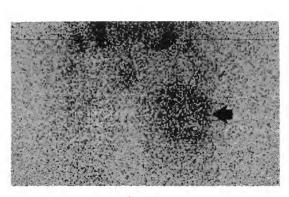


FIG. 3A

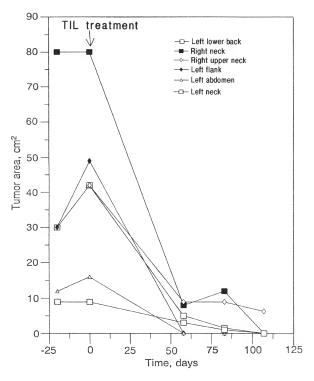


FIG. 3B

GTCGACGGCC ATTACCAATC GCGACCGGGA AGAACACAAT GGATCTGGTG CTAAAAAGAT GCCTTCTCA TTTGGCTGTG ATAGGTGCTT TGCTGGCTGT GGGGGCTACA AAAGTACCCA ATAGGTGCTT TGCTGGCTGT GGGGGCTACA AAAGTACCCA GAAACCAGGA CTGGCTTGGT GTCTCAAGGC AACTCAGAAC CAAAGCCTGG AACAGGCAGC TGTATCCAGA GTGGACAGAA GCCCAGAGAC TTGACTGCTG GAGAGGTGGT CAAGTGTCCC TCAAGGTCAG TAATGATGGG CCTACACTGA TTGGTGCAAA AGGTATTCC CAGATGGCA GGTTATCTCC TGGAAGCCAA AAGGTATTCC CAGATGGCA GGTTATCTCG GTCAACAATA GCCTCCTCT TCTATTGCCT TGAACTTCC TGGAAGCCAA AAGGTATTCC CAGATGGCA GGTTATCTGG GTCAACAATA GCATCATCAA TGGGAGCCAG GTGTGGGGAG GACAGCCAGT GTATCCCCAG GAAACTGACG ATGCCTGCAT CTTCCCTGAT 440 GGTGGACCTT GCCCATCTGG CTCTTGGTCT CAGAAGAGAA ASTTTCTAGGG GGCCCAGTGT CTGGGCTGAG CATTGGGACA ATTTCTAGGG GGCCCAGTGT CTGGGCTGAG CATTGGGACA ACCACCATG GAAGTGACA ACACACCATG GAAGTGACTG GGCAGGGCAA TGCTGGGAC ACACACCATG GAAGTGACTG GCAACAACAC CCGGGGATCC CGGAGCTATG TGCCTCTTGC CTACTCCAGC TCAGCCTCCA GTTGCGGCC TTGGATGGAG GCACACACAC CCAGTGTCCCA GTTGCGGCC TTGGATGGAG GCACACAAGCA CTTCCTGAGA AATCAGCCTC TGACCTTTGC GGAACAAAGCA CTTCCTGAGA AATCAGCCTC TGACCTTTGC GCACCACAGCT CAGCCCCA GTGGCTATCT GGCTGAAGCT GACCTCCCT CACCCTCGA CTTTGGAGAC AGTAGTGGAA 840 CCCTCCAGCTC CATGACCCCA GTGGCTATCT GGCTGAAGCT 880 GCCCTCCAGCTC CAGCCCCA GTGGCTATCT GGCTGAAGCT 880 GCCCTCCAGCTC CAGCCCCA GTGGCTACT CATACTTACCT 880 GCCCTCCAGCTC CAGCCCCA GTGGCTACCT CAGCCTTCAG GCACCACAGA TGGGCACAGG CCAACTGCAG AGCCCCTAA 1000 CACCACACAG TGGCACAGG CCAACTGCAG AGCCCCTAA 1000 CACCACACGT GCCAAGTGC CTACTACAGA AGTTGTGGGT 1040 ACTACACCTG GCCAAGTGC CTACTACAGA ACTTGTGGGT 1040 ACTACACCTG GCCAAGTGC CTACTACAGA ACTTGTGGAA CCACACACGT GCCAAGTGC CTACTACAGA ACTTGTGGAA CCACACACGT GCCAAGTGC CTACTACAGA ACTTGTGGAA CCACACACGT GCCAAGTGC CTACTACAGA CCCTTGGAA CCACACACGT GCCAAGTGC CTACTACAGA ACTTGTGGAT ACTACACCTG GCCAAGTGC CTACTACAGA CCCTTGGAA CCACACTGT GCAGGGCC AACTGCAGA CCCTTCTGGAA CCACACTGT GCAGGGCC					
ATAGGTGCTT TGCTGGCTGT GGGGGCTACA AAAGTACCCA GAAACCAGGA CTGGCTTGGT GTCTCAAGGC AACTCAGAAC GAAACCAGGA CTGGCTTGGT GTCTCAAGGC AACTCAGAAC CAAAGCCTGG AACAGGCAGC TGTATCCAGA GTGGACAGAA GCCCAGAGAC TTGACTGCTG GAGAGGTGGT CAAGTGTCCC TCAAGGTCAG TAATGATGGG CCTACACTGA TTGGTGCAAA AGGTATTGC CAGATGGCCA GGTTATCTGG GTCAACAATA AGGTATTGC CAGATGGCCA GTGTGGGGAG GACAGCCAGT AAGGTATTGC CAGATGGCCA GTGTGGGGAG GACAGCCAGT GCATCACCAG GAAACTGAC ATGCCTGCAT CTTCCCTGAT AGGTGACCTT GCCCATCTGG CTCTTGGTCT CAGAAGAGAA ACTTTGTTTA TGTCTGGAAG ACCTGGGGC AATACTGGCA ATTTCTAGGG GGCCCAGTGT CTGGGCTGAG CATTGGGACA ATTTCTAGGG GGCCCAGTGT CTGGGCTGAG CATTGGGACA ACCACCATCG CCGGGGATCC CGGAGCTAGT TGCCTCTTGC TCTACCATCC CCGGGGATCC CGGAGCTATG TGCCTCTTGC TCACATCC CCGGGGATCC CGGAGCTATG TGCCTCTTGC TCACATCC CCGGGGATCC CGGAGCTATG TGCCTCTTGC GGAACAAGCA CTTCCTGAGA AATCAGCCT TGACCTTTGC GGAACAAGCA CTTCCTGAGA AATCAGCCT TGACCTTTGC GGAACAAGCA CTTCCTGAGA AATCAGCCT TGACCTTTGC GGAACAAGCA CTTCCTGAGA AATCAGCCT TGACCTTTGC GCACCACAGCT CAGCCCCA GTGGCTATCT GGCTGAAGCT GCCCCCAGCTC CATGACCCCA GTGGCTATCT GGCTGAAGCT GACCTCCCT CAGCCCTCA GTGGCTATCT GGCTGAAGCT ACACCTGGGA CTTTGGAGAC AGTAGTGGAA ACCACCACGCT CAGCCCCCA GTGGCTATCT GGCTGAAGCT GCCCCCAGCTCC CAGTCACTC CCCAGGTGGT CCTGCAGGCT GCACCACAGC CCAGTCACTC CCCAGGTGGT CCTGCAGGCT GCACCACAGA TGGGCACATG CCCAAGTGCC CAGGTTCCAG GCCACTCCC CCAGGTCCCC CCAGGTCCCC CCAGGTCCCC CCAGTTCCAG GCCACCCCAAG TGGCCCCTAA 1000 CACCACACGCT GCCAAGTGC CTACTACAGA AGTTGTGGGT 1040 ACTACACCTG GCCAAGTGC CTACTACAGA AGTTGTGGGT ACCACACACGC GCCAAGTGC CTACTACAGA AGTTGTGGGT CCACACACCT GCCAAGTGC CTACTACAGA AGTTGTGGGT ACCACACACCT GCCAAGTGC CTACTACAGA AGTTGTGGGT ACCACACCCCA GCCACTGCAA CCCCCTGGAA 1080 CCACACTCTCT GCGGGCCC AACCACTGCAG CCCTCTGGAA CCACACACGC GCCAAGTGC CTACTACAGA AGTTGTGGGT ACCACACACGC GCCAAGTGC CTACTACAGA AGTTGTGGGT ACCACACACGC GCCAAGTGC CTACTACAGA AGTTGTGGGT ACCACACACGC GCCAAGTGC CTACTACAGA AGTTGTGGGT ACCACACACGC GCCAAGTGC CTACTACAGA AGTTGTGGGA ACCACACACGC GCCACACTGCA ACCACTGAAG CCCCTTGGAA CCACACTCTCT GCGGGCC AACCACTGAAG CCCCTTGGAA CCACACTCTCTCT GCAGGCCC AACCACTGAAG CCCCTTGGAA CCACACTC	GTCGACGGCC	ATTACCAATC	GCGACCGGGA	AGAACACA <u>AT</u>	40
GAAACCAGGA CTGGCTTGGT GTCTCAAGGC AACTCAGAAC 160 CAAAGCCTGG AACAGGCAGC TGTATCCAGA GTGGACAGAA 200 GCCCAGAGAC TTGACTGCTG GAGAGGTGGT CAAGTGTCCC 240 TCAAGGTCAG TAATGATGGG CCTACACTGA TTGGTGCAAA 280 TGCCTCCTC TCTATTGCCT TGGAACCCAA 320 AAGGTATTGC CAGATGGGCA GGTTATCTGG GTCAACAATA 360 CCATCATCAA TGGGAGCCAG GTGTGGGGAG GACAGCCAGT 400 GTATCCCCAG GAAACTGACG ATGCCTGCAT CTTCCCTGAT 440 GTATCCCCAG GAAACTGACG ATGCCTGCAT CTTCCCTGAT 440 GTTTGTTTA TGCCCATCTGG CTCTTGGTCT CAGAGAGAAA 480 GCTTTGTTA TGTGGGACC ACACACCATG GAAGTGACT 600 TCTACCATCG CCGGGGATCC CGGGGCTTGC CAACACCATG GAAGTGACTG 640 TCTATCCAGC TCAGCCTTCA CCAGTTACTG CCAGGTGCCT 720 TCTCTCAGGA ATCATCAGA	$\underline{G}GATCTGGTG$	CTAAAAAGAT	GCCTTCTTCA	TTTGGCTGTG	80
CAAAGCCTGG AACAGGCAGC TGTATCCAGA GTGGACAGAA 200 GCCCAGAGAC TTGACTGCTG GAGAGGTGGT CAAGTGTCCC 240 TCAAGGTCAG TAATGATGGG CCTACACTGA TTGGTGCAAA 280 TGCCTCCTTC TCTATTGCCT TGAACTTCCC TGGAAGCCAA 320 AAGGTATTGC CAGATGGGCA GGTTATCTGG GTCAACAATA 360 CCATCATCAA TGGGAGCCAG GTGTGGGGAG GACAGCCAGT 400 GTATCCCCAG GAAACTGACG ATGCCTGCAT CTTCCCTGAT 440 GGTGGACCTT GCCCATCTGG CTCTTGGTCT CAGAAGAGAA 480 GCTTTGTTA TGTCTGGAGA ACCTGGGGCC AATACTGGCA 520 ATTTCTAGGG GCCCAGTGT CTGGGCTGA CATTGGGACA 560 GCAGGGCAA TGCTGGGCAC ACACACCATG GAAGTGACTG 640 TCTACCATCG CCGGGGATCC CGGGGCTTGC CTGGATGCTT 680 TTCTCCGTGA ACTCCTGGAC TTGGATGGAG 720 GGAACAAGCA CTTCCTGAGA AATCAGCCTT	ATAGGTGCTT	TGCTGGCTGT	GGGGGCTACA	AAAGTACCCA	120
GCCCAGAGAC TTGACTGCTG GAGAGGTGGT CAAGTGTCCC 240 TCAAGGTCAG TAATGATGGG CCTACACTGA TTGGTGCAAA 280 TGCCTCCTTC TCTATTGCCT TGAACTTCCC TGGAAGCCAA 320 AAGGTATTGC CAGATGGGCA GGTTATCTGG GTCAACAATA 360 CCATCATCAA TGGGAGCCAG GTGTGGGGAG GACAGCCAGT 400 GTATCCCCAG GAAACTGACG ATGCCTGCAT CTCCCTGAT 440 GGTGGACCTT GCCCATCTGG CTCTTGGTCT CAGAAGAGAA 480 GCTTTGTTTA TGTCTGGAAG ACCTGGGGCC AATACTGGCA 520 ATTTCTAGGG GCCCAGTGT CTGGGCTAGC CATTGGGACA 560 GCAGGGCAA TGCTGGGCAC ACACACCATG GAAGTGACTG 600 TCTACCATCG CCGGGGATCC CGGGGCTATGC CAAGTGACTG 640 TCATTCCAGC TCAGCCTTCA CCAGTTCTGC TGGCTCTTGC 680 TCTCCAGGC TCAGCCTCA GTTGGGGCC TTGGATGGAC 720 GCACACACAGC CTTCCTGGAC	GAAACCAGGA	CTGGCTTGGT	GTCTCAAGGC	AACTCAGAAC	160
TCAAGGTCAG TAATGATGGG CCTACACTGA TTGGTGCAAA 280 TGCCTCCTTC TCTATTGCCT TGAACTTCCC TGGAAGCCAA 320 AAGGTATTGC CAGATGGGCA GGTTATCTGG GTCAACAATA 360 CCATCATCAA TGGGAGCCAG GTGTGGGGAG GACAGCCAGT 400 GTATCCCCAG GAAACTGACG ATGCCTGCAT CTTCCCTGAT 440 GGTGGACCTT GCCCATCTGG CTCTTGGTCT CAGAAGAGAA 480 GCTTTGTTTA TGTCTGGGAC AATACTGGCA 520 ATTTCTAGGG GCCCAGTGT CTGGGCTGAC CATTGGGACA 560 GCAGGGCAA TGCTGGGCAC ACACACCATG GAAGTGACTG 600 TCTACCATCG CCGGGGATCC CGGAGCTATG TGCCTCTTGC 640 TCATTCCAGC TCAGCCTTCA CCAGTTCTCTGC 680 720 TCATTCCAGC TCAGCCTTCA CTTGGAGGCC TTGACCTTTGC 760 GCACCACAGCT CATGACCCCA GTGGCTATCT GCCTGAAGCT 800 GACCTCCATC CACACTGGAC AGTACTTACCT	CAAAGCCTGG	AACAGGCAGC	TGTATCCAGA	GTGGACAGAA	200
TGCCTCCTTC TCTATTGCCT TGAACTTCCC TGGAAGCCAA 320 AAGGTATTGC CAGATGGGCA GGTTATCTGG GTCAACAATA 360 CCATCATCAA TGGGAGCCAG GTGTGGGGA GACAGCCAGT 400 GTATCCCCAG GAAACTGACG ATGCCTGCAT CTTCCCTGAT 440 GGTGGACCTT GCCCATCTGG CTCTTGGTCT CAGAAGAGAA 480 GCTTTGTTTA TGTCTGGAAG ACCTGGGGCC AATACTGGCA 520 ATTTCTAGGG GGCCCAGTGT CTGGGCTGAG CATTGGGACA 560 GGCAGGGCAA TGCTGGGCAC ACACACCATG GAAGTGACTG 600 TCTACCATCG CCGGGGATCC CGGAGCTATG TGCCTCTTGC 640 TCATTCCAGC TCAGCCTTAC CCAGTTGCCT CCAGTTGCCT 680 TTCTCCGTGA AATCAGCCCT TTGGATGGAG 720 GGAACAAGCA CTTCCTGAGA AATCAGCCTC TGACCTTTGC 760 CCTCCAGCTC CATGACCCCA GTGGCTAACTT GCCTGAAGCT 800 GACCTCTCCT ACACCTGGAC ACTTGAGGAC	GCCCAGAGAC	TTGACTGCTG	GAGAGGTGGT	CAAGTGTCCC	240
AAGGTATTGC CAGATGGGCA GGTTATCTGG GTCAACAATA 360 CCATCATCAA TGGGAGCCAG GTGTGGGGAG GACAGCCAGT 400 GTATCCCCAG GAAACTGACG ATGCCTGCAT CTTCCCTGAT 440 GGTGGACCTT GCCCATCTGG CTCTTGGTCT CAGAAGAGAA 480 GCTTTGTTTA TGTCTGGAAG ACCTGGGGCC AATACTGGCA 520 ATTTCTAGGG GGCCCAGTGT CTGGGCTGAG CATTGGGACA 560 GGCAGGGCAA TGCTGGGCAC ACACACCATG GAAGTGACTG 600 TCTACCATCG CCGGGGATCC CGGAGCTATG TGCCTCTTGC 640 TCATTCCAGC TCAGCCTTCA CCATTACTGA CCAGGTGCCT 680 TCTCTCGTGA AATCAGCCCT TTGGATGGAG 720 GGAACAAGCA CTTCCTGAGA AATCAGCCTC TGACCTTTGC 760 CCTCCAGCTC CATGACCCCA GTGGCTAACTT GGCCTGAAGCT 800 GACCTCTCCT ACACCTGGGA ACTTGAGAGC AGTAGTGGAA 840 CCCTGATCTC TCAGCTCCTC ATACTTACCT	TCAAGGTCAG	TAATGATGGG	CCTACACTGA	TTGGTGCAAA	280
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GTATCCCCAG GAAACTGACG ATGCCTGCAT CTTCCCTGAT 440 GGTGGACCTT GCCCATCTGG CTCTTGGTCT CAGAAGAGAA 480 GCTTTGTTTA TGTCTGGAAG ACCTGGGCC AATACTGGCA 520 ATTTCTAGGG GGCCCAGTGT CTGGGCTGAG CATTGGGACA 560 GGCAGGGCAA TGCTGGGCAC ACACACCATG GAAGTGACTG 600 TCTACCATCG CCGGGGATCC CGGAGCTATG TGCCTCTTGC 640 TCATTCCAGC TCAGCCTTCA CCAGTTACTG CCAGGTGCCT 680 TTCTCCGTGA GCGTGGCCC TTGGATGGAG 720 GGAACAAGCA CTTCCTGAGA AATCAGCCTC TGACCTTTGC 760 CCTCCAGCTC CATGACCCCA GTGGCTATCT GCCTGAAGCT 800 GACCTCTCCT ACACCTGGAC ACTTGGAGAC AGTAGTGGAA 840 CCCTGATCTC TCGGGCACTT GTGGTCACTC ATACTTACCT 880 GGAGCCTGGC CCAGTCACTC CTGCAGGCT ATACTTACCT 920 GCACTTCCTC TCACCTCCTG TGGCTCCTC	AAGGTATTGC	CAGATGGGCA	GGTTATCTGG	GTCAACAATA	360
GGTGGACCTT GCCCATCTGG CTCTTGGTCT CAGAAGAGAA 480 GCTTTGTTTA TGTCTGGAAG ACCTGGGGCC AATACTGGCA 520 ATTTCTAGGG GGCCCAGTGT CTGGGCTGAC CATTGGGACA 560 GGCAGGGCAA TGCTGGGCAC ACACACCATG GAAGTGACTG 600 TCTACCATCG CCGGGGATCC CGGAGCTATG TGCCTCTTGC 640 TCATTCCAGC TCAGCCTTCA CCAGTTACTGA CCAGGTGCCT 680 TTCTCCGTGA GCGTGTCCCA GTTGCGGGCC TTGGATGGAG 720 GGAACAAGCA CTTCCTGAGA AATCAGCCTC TGACCTTTGC 760 CCTCCAGCTC CATGACCCCA GTGGCTATCT GCCTGAAGCT 800 GACCTCTCCT ACACCTGGAC ATTCTTGACT ATACTTACCT 880 GCAGTGCTC CCAGTCACTC ATACTTACCT 880 GCACTTGCT TCAGCTCCTC CCTGCAGGCT 920 GCCATTCCTC TCACCTCCTG TGGCTCCTC CCAGTTCCAG 960 GCACCACAGA TGGGCACAGG CCAACTGCAG AGCCCCTAA	CCATCATCAA	TGGGAGCCAG	GTGTGGGGAG	GACAGCCAGT	400
GCTTTGTTTA TGTCTGGAAG ACCTGGGGCC AATACTGGCA 520 ATTTCTAGGG GGCCCAGTGT CTGGGCTGAG CATTGGGACA 560 GGCAGGGCAA TGCTGGGCAC ACACACCATG GAAGTGACTG 600 TCTACCATCG CCGGGGATCC CGGAGCTATG TGCCTCTTGC 640 TCATTCCAGC TCAGCCTTCA CCATTACTGA CCAGGTGCCT 680 TTCTCCGTGA GCGTGTCCCA GTTGCGGGCC TTGGATGGAG 720 GGAACAAGCA CTTCCTGAGA AATCAGCCTC TGACCTTTGC 760 CCTCCAGCTC CATGACCCCA GTGGCTATCT GCTGAAGCT 800 GACCTCTCCT ACACCTGGAA AGTTGGAGA AGTAGTGGAA 840 CCCTGATCTC TCGGGCACTT GTGGTCACTC ATACTTACCT 880 GGAGCCTGGC CCAGTCACTC CTGCAGGCT 920 GCCATTCCTC TCACCTCCTG TCGCTCCAG 960 GCACCACAGA TGGGCACAGG CCAACTGCAG AGCCCCTAA 1000 CACCACAGCT GCCAACTGCAG AGTTCTGGAA AGTTCTGGAA	GTATCCCCAG	GAAACTGACG	ATGCCTGCAT	CTTCCCTGAT	440
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GGCAGGGCAA TGCTGGGCAC ACACCCATG GAAGTGACTG 600 TCTACCATCG CCGGGGATCC CGGAGCTATG TGCCTCTTGC 640 TCATTCCAGC TCAGCCTTCA CCATTACTGA CCAGGTGCCT 680 TTCTCCGTGA GCGTGCCCA GTTGCGGGCC TTGGATGGAG 720 GGAACAAGCA CTTCCTGAGA AATCAGCCTC TGACCTTTGC 760 CCTCCAGCTC CATGACCCCA GTGGCTATCT GGCTGAAGCT 800 GACCTCTCCT ACACCTGGGA CTTTGGAGAC AGTAGTGGAA 840 CCCTGATCTC TCGGGCACTT GTGGTCACTC ATACTTACCT 880 GGAGCCTGGC CCAGTCACTG CCCAGGTGGT CCTGCAGGCT 920 GCCATTCCTC TCACCTCCTG TGGCTCCTC CCAGTTCCAG 960 GCACCACAGA TGGGCACAGG CCAACTGCAG AGGCCCCTAA 1000 CACCACAGCT GGCCAAGTGC CTACTACAGA AGTTGTGGGT 1040 ACTACACCTG GTCAGGCGC AACTGCAG CCCTCTGGAA 1080 CCACATCTCT GCAGGTGCC ACCACTGAAG CCCCTCTGGAA 1080	GCTTTGTTTA	TGTCTGGAAG	ACCTGGGGCC	AATACTGGCA	520
TCTACCATCG CCGGGGATCC CGGAGCTATG TGCCTCTTGC 640 TCATTCCAGC TCAGCCTTCA CCATTACTGA CCAGGTGCCT 680 TTCTCCGTGA GCGTGTCCCA GTTGCGGGCC TTGGATGGAG 720 GGAACAAGCA CTTCCTGAGA AATCAGCCTC TGACCTTTGC 760 CCTCCAGCTC CATGACCCCA GTGGCTATCT GGCTGAAGCT 800 GACCTCTCCT ACACCTGGGA CTTTGGAGAC AGTAGTGGAA 840 CCCTGATCTC TCGGGCACTT GTGGTCACTC ATACTTACCT 880 GGAGCCTGGC CCAGTCACTG CCCAGGTGGT CCTGCAGGCT 920 GCCATTCCTC TCACCTCCTG TGGCTCCTC CCAGTTCCAG 960 GCACCACAGA TGGGCACAGG CCAACTGCAG AGGCCCCTAA 1000 CACCACAGCT GGCCAAGTGC CTACTACAGA AGTTGTGGGT 1040 ACTACACCTG GTCAGGCGC AACTGCAGA CCCCTCTGGAA 1080 CCACATCTCT GCAGGTGCC ACCACTGAAG CCCCTTGGAA 1080	ATTTCTAGGG	GGCCCAGTGT	CTGGGCTGAG	CATTGGGACA	560
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TTCTCCGTGA GCGTGTCCCA GTTGCGGGCC TTGGATGGAG 720 GGAACAAGCA CTTCCTGAGA AATCAGCCTC TGACCTTTGC 760 CCTCCAGCTC CATGACCCCA GTGGCTATCT GGCTGAAGCT 800 GACCTCTCCT ACACCTGGA CTTTGGAGAC AGTAGTGGAA 840 CCCTGATCTC TCGGGCACTT GTGGTCACTC ATACTTACCT 880 GGAGCCTGGC CCAGTCACTG CCCAGGTGGT CCTGCAGGCT 920 GCCATTCCTC TCACCTCCTG TGGCTCCTC CCAGGTTCCAG 960 GCACCACAGA TGGGCACAG CCAACTGCAG AGCCCCTAA 1000 CACCACAGCT GGCCAAGTGC CTACTACAGA AGTTGTGGGT 1040 ACTACACCTG GTCAGGCGCC AACTGCAGG CCCTCTGGAA 1080 CCACATCTGT GCAGGTGCCA ACCACTGAAG TCATAAGCAC 1120	TCTACCATCG	CCGGGGATCC	CGGAGCTATG	TGCCTCTTGC	640
GGAACAAGCA CTTCCTGAGA AATCAGCCTC TGACCTTTGC 760 CCTCCAGCTC CATGACCCCA GTGGCTATCT GGCTGAAGCT 800 GACCTCTCCT ACACCTGGA CTTTGGAGAC AGTAGTGGAA 840 CCCTGATCTC TCGGGCACTT GTGGTCACTC ATACTTACCT 880 GGAGCCTGGC CCAGTCACTG CCCAGGTGGT CCTGCAGGCT 920 GCCATTCCTC TCACCTCCTG TGGCTCCTC CCAGTTCCAG 960 GCACCACAGA TGGGCACAGG CCAACTGCAG AGGCCCCTAA 1000 CACCACAGCT GGCCAAGTGC CTACTACAGA AGTTGTGGGT 1040 ACTACACCTG GTCAGGCGCC AACTGCAGG CCCTCTGGAA 1080 CCACATCTGT GCAGGTGCCA ACCACTGAAG TCATAAGCAC 1120	TCATTCCAGC	TCAGCCTTCA	CCATTACTGA	CCAGGTGCCT	680
CCTCCAGCTC CATGACCCCA GTGGCTATCT GGCTGAAGCT 800 GACCTCTCCT ACACCTGGGA CTTTGGAGAC AGTAGTGGAA 840 CCCTGATCTC TCGGGCACTT GTGGTCACTC ATACTTACCT 880 GGAGCCTGGC CCAGTCACTG CCCAGGTGGT CCTGCAGGCT 920 GCCATTCCTC TCACCTCCTG TGGCTCCTCC CCAGTTCCAG 960 GCACCACAGA TGGGCACAGG CCAACTGCAG AGGCCCCTAA 1000 CACCACAGCT GGCCAAGTGC CTACTACAGA AGTTGTGGGT 1040 ACTACACCTG GTCAGGCGCC AACTGCAGG CCCTCTGGAA 1080 CCACATCTGT GCAGGTGCCA ACCACTGAAG TCATAAGCAC 1120	TTCTCCGTGA	GCGTGTCCCA	GTTGCGGGCC	TTGGATGGAG	720
GACCTCTCCT ACACCTGGGA CTTTGGAGAC AGTAGTGGAA 840 CCCTGATCTC TCGGGCACTT GTGGTCACTC ATACTTACCT 880 GGAGCCTGGC CCAGTCACTG CCCAGGTGGT CCTGCAGGCT 920 GCCATTCCTC TCACCTCCTG TGGCTCCTC CCAGTTCCAG 960 GCACCACAGA TGGGCACAGG CCAACTGCAG AGGCCCCTAA 1000 CACCACAGCT GGCCAAGTGC CTACTACAGA AGTTGTGGGT 1040 ACTACACCTG GTCAGGCGCC AACTGCAG CCCTCTGGAA 1080 CCACATCTGT GCAGGTGCCA ACCACTGAAG TCATAAGCAC 1120	GGAACAAGCA	CTTCCTGAGA	AATCAGCCTC	TGACCTTTGC	760
CCCTGATCTC TCGGGCACTT GTGGTCACTC ATACTTACCT 880 GGAGCCTGGC CCAGTCACTG CCCAGGTGGT CCTGCAGGCT 920 GCCATTCCTC TCACCTCCTG TGGCTCCTCC CCAGTTCCAG 960 GCACCACAGA TGGGCACAGG CCAACTGCAG AGGCCCCTAA 1000 CACCACAGCT GGCCAAGTGC CTACTACAGA AGTTGTGGGT 1040 ACTACACCTG GTCAGGCGCC AACTGCAGA CCCTCTGGAA 1080 CCACATCTGT GCAGGTGCCA ACCACTGAAG TCATAAGCAC 1120	CCTCCAGCTC	CATGACCCCA	GTGGCTATCT	GGCTGAAGCT	800
GGAGCCTGGC CCAGTCACTG CCCAGGTGGT CCTGCAGGCT 920 GCCATTCCTC TCACCTCCTG TGGCTCCTCC CCAGTTCCAG 960 GCACCACAGA TGGGCACAGG CCAACTGCAG AGGCCCCTAA 1000 CACCACAGGT GGCCAAGTGC CTACTACAGA AGTTGTGGGT 1040 ACTACACCTG GTCAGGCGCC AACTGCAGA CCCTCTGGAA 1080 CCACATCTGT GCAGGTGCCA ACCACTGAAG TCATAAGCAC 1120	GACCTCTCCT	ACACCTGGGA	CTTTGGAGAC	AGTAGTGGAA	840
GCCATTCCTC TCACCTCCTG TGGCTCCTCC CCAGTTCCAG 960 GCACCACAGA TGGGCACAGG CCAACTGCAG AGGCCCCTAA 1000 CACCACAGCT GGCCAAGTGC CTACTACAGA AGTTGTGGGT 1040 ACTACACCTG GTCAGGCGCC AACTGCAGAG CCCTCTGGAA 1080 CCACATCTGT GCAGGTGCCA ACCACTGAAG TCATAAGCAC 1120	CCCTGATCTC	TCGGGCACTT	GTGGTCACTC	ATACTTACCT	880
GCACCACAGA TGGGCACAGG CCAACTGCAG AGGCCCCTAA 1000 CACCACAGCT GGCCAAGTGC CTACTACAGA AGTTGTGGGT 1040 ACTACACCTG GTCAGGCGCC AACTGCAGA CCCTCTGGAA 1080 CCACATCTGT GCAGGTGCCA ACCACTGAAG TCATAAGCAC 1120	GGAGCCTGGC	CCAGTCACTG	CCCAGGTGGT	CCTGCAGGCT	920
CACCACAGCT GGCCAAGTGC CTACTACAGA AGTTGTGGGT 1040 ACTACACCTG GTCAGGCGCC AACTGCAGA CCCTCTGGAA 1080 CCACATCTGT GCAGGTGCCA ACCACTGAAG TCATAAGCAC 1120	GCCATTCCTC	TCACCTCCTG	TGGCTCCTCC	CCAGTTCCAG	960
ACTACACCTG GTCAGGCGCC AACTGCAGAG CCCTCTGGAA 1080 CCACATCTGT GCAGGTGCCA ACCACTGAAG TCATAAGCAC 1120	GCACCACAGA	TGGGCACAGG	CCAACTGCAG	AGGCCCCTAA	1000
CCACATCTGT GCAGGTGCCA ACCACTGAAG TCATAAGCAC 1120	CACCACAGCT	GGCCAAGTGC	CTACTACAGA	AGTTGTGGGT	1040
	ACTACACCTG	GTCAGGCGCC	AACTGCAGAG	CCCTCTGGAA	1080
FIG. 4A	CCACATCTGT	GCAGGTGCCA	ACCACTGAAG	TCATAAGCAC	1120
			FIG. 4A		

IGCACCIGIG	CAGATGCCAA	CTGCAGAGAG	CACAGGTATG	1160
ACACCTGAGA	AGGTGCCAGT	TTCAGAGGTC	ATGGGTACCA	1200
CACTGGCAGA	GATGTCAACT	CCAGAGGCTA	CAGGTATGAC	1240
ACCTGCAGAG	GTATCAATTG	TGGTGCTTTC	TGGAACCACA	1280
GCTGCACAGG	TAACAACTAC	AGAGTGGGTG	GAGACCACAG	1320
CTAGAGAGCT	ACCTATCCCT	GAGCCTGAAG	GTCCAGATGC	1360
CAGCTCAATC	ATGTCTACGG	AAAGTATTAC	AGGTTCCCTG	1400
GGCCCCCTGC	TGGATGGTAC	AGCCACCTTA	AGGCTGGTGA	1440
AGAGACAAGT	CCCCTGGAT	TGTGTTCTGT	ATCGATATGG	1480
TTCCTTTTCC	GTCACCCTGG	ACATTGTCCA	GGGTATTGAA	1520
AGTGCCGAGA	TCCTGCAGGC	TGTGCCGTCC	GGTGAGGGG	1560
ATGCATTTGA	GCTGACTGTG	TCCTGCCAAG	GCGGGCTGCC	1600
CAAGGAAGCC	TGCATGGAGA	TCTCATCGCC	AGGGTGCCAG	1640
CCCCCTGCCC	AGCGGCTGTG	CCAGCCTGTG	CTACCCAGCC	1680
CAGCCTGCCA	GCTGGTTCTG	CACCAGATAC	TGAAGGGTGG	1720
CTCGGGGACA	TACTGCCTCA	ATGTGTCTCT	GGCTGATACC	1760
AACAGCCTGG	CAGTGGTCAG	CACCCAGCTT	ATCATGCCTG	1800
GTCAAGAAGC	AGGCCTTGGG	CAGGTTCCGC	TGATCGTGGG	1840
CATCTTGCTG	GTGTTGATGG	CTGTGGTCCT	TGCATCTCTG	1880
ATATATAGGC	GCAGACTTAT	GAAGCAAGAC	TTCTCCGTAC	1920
CCCAGTTGCC	ACATAGCAGC	AGTCACTGGC	TGCGTCTACC	1960
CCGCATCTTC	TGCTCTTGTC	CCATTGGTGA	GAACAGCCCC	2000
CTCCTCAGTG	GGCAGCAGGT	CTGAGTACTC	TCATA <u>TGA</u> TG	2040
CTGTGATTTT	CCTGGAGTTG	ACAGAAACAC	CTATATTTCC	2080
CCCAGTCTTC	CCTGGGAGAC	TACTATTAAC	TGAAATAAAT	2120
ACTCAGAGCC	TGAAAAAAA	ТАААААААА	АААААААА	2160
ааааааааа	AA			2172

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MDLVLKRCLL HLAVIGALLA VGATKVPRNQ DWLGVSRQLR TKAWNRQLYP
51
     EWTEAORLDC WRGGOVSLKV SNDGPTLIGA NASFSIALNF PGSOKVLPDG
     QVIWVNNTII NGSQVWGGQP VYPQETDDAC IFPDGGPCPS GSWSQKRSFV
101
151
     YVWKTWGOYW OFLGGPVSGL SIGTGRAMLG THTMEVTVYH RRGSRSYVPL
201
     AHSSSAFTIT DQVPFSVSVS QLRALDGGNK HFLRNQPLTF ALQLHDPSGY
251
     LAEADLSYTW DFGDSSGTLI SRALVVTHTY LEPGPVTAOV VLOAAIPLTS
301
     CGSSPVPGTT DGHRPTAEAP NTTAGQVPTT EVVGTTPGQA PTAEPSGTTS
351
     VOVPTTEVIS TAPVOMPTAE STGMTPEKVP VSEVMGTTLA EMSTPEATGM
     TPAEVSIVVL SGTTAAOVTT TEWVETTARE LPIPEPEGPD ASSIMSTESI
401
451
     TGSLGPLLDG TATLRLVKRQ VPLDCVLYRY GSFSVTLDIV QGIESAEILQ
501
     AVPSGEGDAF ELTVSCQGGL PKEACMEISS PGCQPPAQRL CQPVLPSPAC
551
     QLVLHQILKG GSGTYCLNVS LADTNSLAVV STQLIMPGQE AGLGQVPLIV
601
     GILLVLMAVV LASLIYRRL MKODFSVPOL PHSSSHWLRL PRIFCSCPIG
651
     ENSPLLSGOO V
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FIG. 5A

FIG. 5B

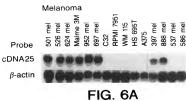
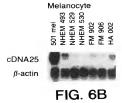


FIG. O



501 mel Adrenal Gland Adrenal Gland Brain Klider Liver Lung Berlina Spieen Fests Thymus Thymus Thymus

cDNA25 β-actin

FIG. 6C